

WHAT IS CLAIMED IS:

1. An isolated polynucleotide, said polynucleotide comprising a nucleic acid sequence encoding:

5 i) a polypeptide comprising an amino acid sequence having at least about 80% identity to any one of the sequences shown as SEQ ID NOS:242-482 or any one of the sequences of polypeptides encoded by the clone inserts of the deposited clone pool; or

10 ii) a biologically active fragment of said polypeptide.

10 2. The polynucleotide of claim 1, wherein said polypeptide comprises any one of the sequences shown as SEQ ID NOS:242-482 or any one of the sequences of the polypeptides encoded by the clone inserts of the deposited clone pool.

15 3. The polynucleotide of claim 1, wherein said polypeptide comprises a signal peptide.

4. The polynucleotide of claim 1, wherein said polypeptide is a mature protein.

20 5. The polynucleotide of claim 1, wherein said nucleic acid sequence has at least about 80% identity over at least about 100 contiguous nucleotides to any one of the sequences shown as SEQ ID NOS:1-241 or any one of the sequences of the clone inserts of the deposited clone pool.

25 6. The polynucleotide of claim 1, wherein said polynucleotide hybridizes under stringent conditions to a polynucleotide comprising any one of the sequences shown as SEQ ID NOS:1-241 or any one of the sequences of the clone inserts of the deposited clone pool.

30 7. The polynucleotide of claim 5, wherein said nucleic acid sequence comprises any one of the sequences shown as SEQ ID NOS:1-241 or any one of the sequences of the clone inserts of the deposited clone pool.

35 8. The polynucleotide of claim 1, wherein said polynucleotide is operably linked to a promoter.

9. An expression vector comprising the polynucleotide of claim 8.

10. A host cell recombinant for the polynucleotide of claim 1.

11. A non-human transgenic animal comprising the host cell of claim 10.

12. A method of making a GENSET polypeptide, said method comprising

5 a) providing a population of host cells comprising the polynucleotide of claim 8; and

 b) culturing said population of host cells under conditions conducive to the production of said polypeptide within said host cells.

13. The method of claim 12, further comprising purifying said polypeptide from said 10 population of host cells.

14. A method of making a GENSET polypeptide, said method comprising

15 a) providing a population of cells comprising the polynucleotide of claim 8;

 b) culturing said population of cells under conditions conducive to the production of said polypeptide within said cells; and

 c) purifying said polypeptide from said population of cells.

15. An isolated polynucleotide, said polynucleotide comprising a nucleic acid sequence having at least about 80% identity over at least about 100 contiguous nucleotides to any one of the 20 sequences shown as SEQ ID NOs:1-241 or any one of the sequences of the clone inserts of the deposited clone pool.

16. The polynucleotide of claim 15, wherein said polynucleotide hybridizes under stringent conditions to a polynucleotide comprising any one of the sequences shown as SEQ ID 25 NOs:1-241 or any one of the sequences of the clone inserts of the deposited clone pool.

17. The polynucleotide of claim 15, wherein said polynucleotide comprises any one of the sequences shown as SEQ ID NOs:1-241 or any one of the sequences of the clone inserts of the deposited clone pool.

30 18. A biologically active polypeptide encoded by the polynucleotide of claim 15.

19. An isolated polypeptide or biologically active fragment thereof, said polypeptide comprising an amino acid sequence having at least about 80% sequence identity to any one of the 35 sequences shown as SEQ ID NOs:242-482 or any one of the sequences of polypeptides encoded by the clone inserts of the deposited clone pool.

20. The polypeptide of claim 19, wherein said polypeptide is selectively recognized by an antibody raised against an antigenic polypeptide, or an antigenic fragment thereof, said antigenic polypeptide comprising any one of the sequences shown as SEQ ID NOs:242-482 or any one of the sequences of polypeptides encoded by the clone inserts of the deposited clone pool.

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21. The polypeptide of claim 19, wherein said polypeptide comprises any one of the sequences shown as SEQ ID NOs:242-482 or any one of the sequences of polypeptides encoded by the clone inserts of the deposited clone pool.

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22. The polypeptide of claim 19, wherein said polypeptide comprises a signal peptide.

23. The polypeptide of claim 19, wherein said polypeptide is a mature protein.

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24. An antibody that specifically binds to the polypeptide of claim 19.

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25. A method of determining whether a GENSET gene is expressed within a mammal, said method comprising the steps of:

a) providing a biological sample from said mammal

b) contacting said biological sample with either of:

i) a polynucleotide that hybridizes under stringent conditions to the polynucleotide of claim 1; or

ii) a polypeptide that specifically binds to the polypeptide of claim 19; and

c) detecting the presence or absence of hybridization between said polynucleotide and an RNA species within said sample, or the presence or absence of binding of said polypeptide to a protein within said sample;

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wherein a detection of said hybridization or of said binding indicates that said GENSET gene is expressed within said mammal.

26. The method of claim 25, wherein said polynucleotide is a primer, and wherein said 30 hybridization is detected by detecting the presence of an amplification product comprising the sequence of said primer.

27. The method of claim 25, wherein said polypeptide is an antibody.

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28. A method of determining whether a mammal has an elevated or reduced level of GENSET gene expression, said method comprising the steps of :

a) providing a biological sample from said mammal; and

b) comparing the amount of the polypeptide of claim 19, or of an RNA species encoding said polypeptide, within said biological sample with a level detected in or expected from a control sample;

wherein an increased amount of said polypeptide or said RNA species within said biological sample compared to said level detected in or expected from said control sample indicates that said mammal has an elevated level of said GENSET gene expression, and wherein a decreased amount of said polypeptide or said RNA species within said biological sample compared to said level detected in or expected from said control sample indicates that said mammal has a reduced level of said GENSET gene expression.

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29. A method of identifying a candidate modulator of a GENSET polypeptide, said method comprising :

a) contacting the polypeptide of claim 18 with a test compound; and
b) determining whether said compound specifically binds to said polypeptide;

wherein a detection that said compound specifically binds to said polypeptide indicates that said compound is a candidate modulator of said GENSET polypeptide.

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